



# Samsung Galaxy S8 Sensor Array Replacement

Remove or replace the sensor array in a Samsung Galaxy S8.

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## INTRODUCTION

Use this guide to remove the sensor array in your Samsung Galaxy S8. Included in the array is the status LED, an IR emitter, and a rangefinder.

This guide involves removing the rear glass cover, you will need replacement adhesive to reattach the back cover to the phone.

**Before disassembling your phone, discharge the battery below 25%. The battery can catch fire and/or explode if accidentally punctured, but the chances of that happening are much lower if discharged.**



### TOOLS:

- [Phillips #000 Screwdriver](#) (1)
- [iOpener](#) (1)
- [Suction Handle](#) (1)
- [Halberd Spudger](#) (1)
- [iFixit Opening Picks set of 6](#) (1)
- [SIM Card Eject Tool](#) (1)
- [Spudger](#) (1)



### PARTS:

- [Tesa 61395 Tape](#) (1)

*Thin, high-bond tape is required if the replacement part does not come with adhesive.*

## Step 1 — iOpener Heating



- ❗ We recommend that you clean your microwave before proceeding, as any nasty gunk on the bottom may end up stuck to the iOpener.
- Place the iOpener in the center of the microwave.
- ⚠ For carousel microwaves: Make sure the plate spins freely. If your iOpener gets stuck, it may overheat and burn.

## Step 2




- Heat the iOpener for **thirty seconds**.
- Throughout the repair procedure, as the iOpener cools, reheat it in the microwave for an additional thirty seconds at a time.

- ⚠ Be careful not to overheat the iOpener during the repair. Overheating may cause the iOpener to burst.
- ⚠ Never touch the iOpener if it appears swollen.
- ⚠ If the iOpener is still too hot in the middle to touch, continue using it while waiting for it to cool down some more before reheating. A properly heated iOpener should stay warm for up to 10 minutes.

## Step 3





- Remove the iOpener from the microwave, holding it by one of the two flat ends to avoid the hot center.

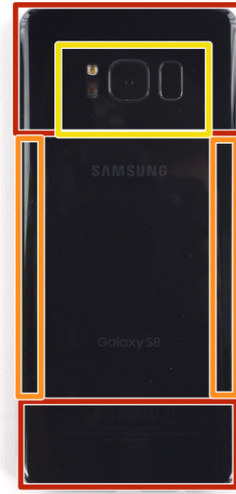
 The iOpener will be very hot, so be careful when handling it. Use an oven mitt if necessary.

## Step 4 — Rear Glass Assembly



- Apply a heated iOpener to a long edge of the S8 for about 2 minutes.
  -  You may need to reheat and reapply the iOpener several times to get the phone warm enough. Follow the iOpener instructions to avoid overheating.
  -  As you're waiting for the adhesive to soften, move on and read the following step to get an idea of where to pry.

## Step 5



- In the following steps you will be cutting through the adhesive around the edge of the rear glass panel.
- The adhesive on the rear case is laid out as seen in the first image.
- The prying pattern as seen from the outside of the phone is as follows:
  - Thick portions of adhesive
  - Thin areas of adhesive
  - Avoid prying here, to protect the fingerprint sensor.



## Step 6



- Once the back panel is warm to the touch, apply a suction cup as close to the heated edge of the phone as you can while avoiding the curved edge.
  - ⓘ The suction cup will not make a good seal on the curved portion of the glass.
- Lift on the suction cup, and insert a halberd spudger, or opening pick, under the rear glass.
  - ⓘ Due to the curved glass, you will be pushing up, rather than inserting parallel to the plane of the phone.

## Step 7



- Once you have the tool firmly inserted into the glass, [reheat](#) and reapply the iOpener to soften the adhesive.

## Step 8



- Slide the blade of a Halberd spudger down the side of the phone, separating the adhesive.
- ⓘ Go slowly so that the tip doesn't slip out of the seam. If cutting becomes difficult, reheat and reapply the iOpener.



## Step 9



- Repeat the previous heating and cutting procedure for the remaining three sides of the phone.
- Leave an opening pick on each side as you continue to the next to prevent the adhesive from resealing.

## Step 10



- ⓘ The fingerprint sensor cable connects the phone to the rear glass near the main camera. The cable is very short and should disconnect as the rear glass is removed.
- ⚠ As you lift the glass, peek in to be sure the orange cable with a blue connector has disconnected.
  - Use the opening picks to slice through any remaining adhesive and open the phone slightly.
- ⚠ If the fingerprint sensor cable seems snagged or stays taut do not open the phone any further. Disconnect the connector with the point of a spudger before proceeding.
  - Remove the glass from the phone.

## Step 11



- ✦ Before replacing your rear glass you will need to remove the old adhesive from the phone body.
- After removing the old adhesive, clean the edges of the phone body with high concentration isopropyl alcohol (at least 90%), then apply the new adhesive.

## Step 12 — NFC Antenna and Charging Coil Assembly



- Remove eleven 3.7 mm Phillips #000 screws.

## Step 13



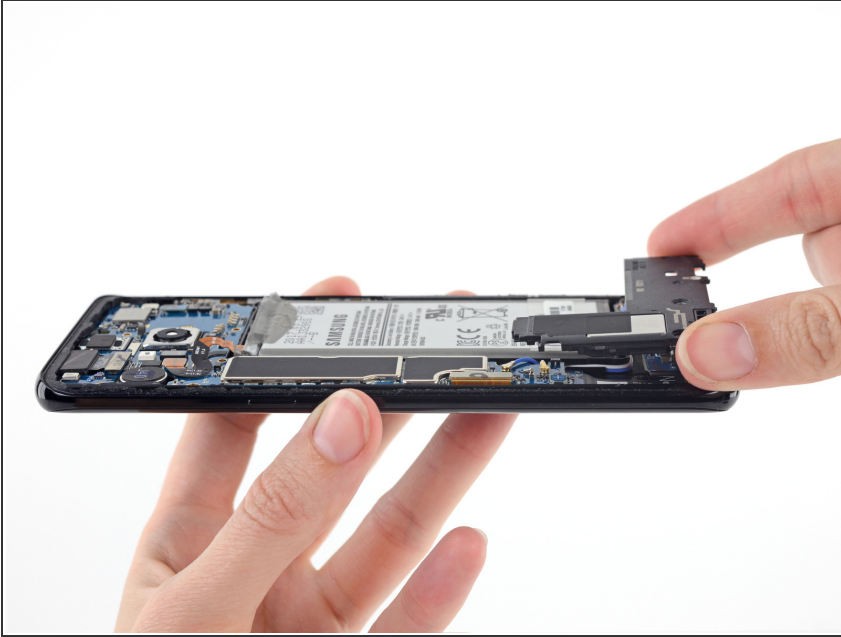
- Remove the NFC antenna and charging coil assembly.

## Step 14 — Loudspeaker Assembly



- Remove three 3.7 mm Phillips #000 screws.

## Step 15



- Remove the loudspeaker assembly.

## Step 16 — SIM Card



- Insert a SIM card opening tool into the small hole on the left side of the top edge of the phone.
  - Press to eject the tray.
  - Remove the SIM card tray from the phone.
- ☒ When reinserting the SIM card, ensure that it is in the proper orientation relative to the tray.

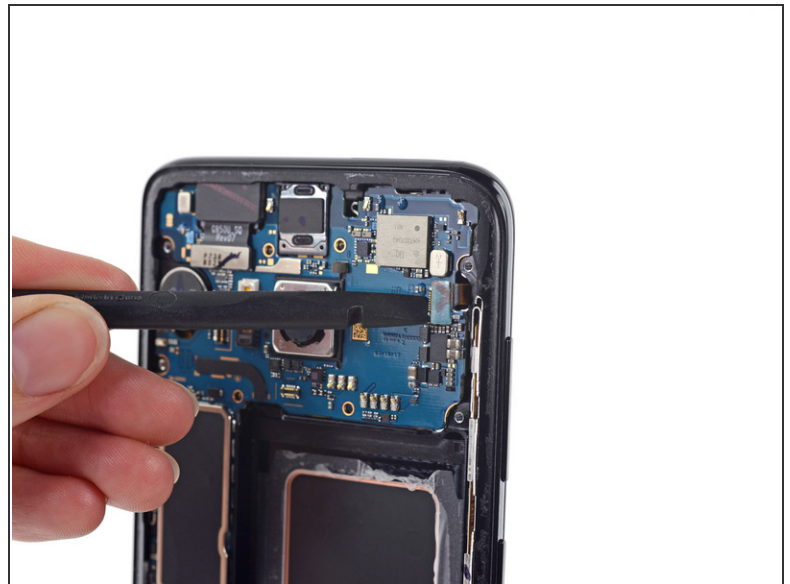
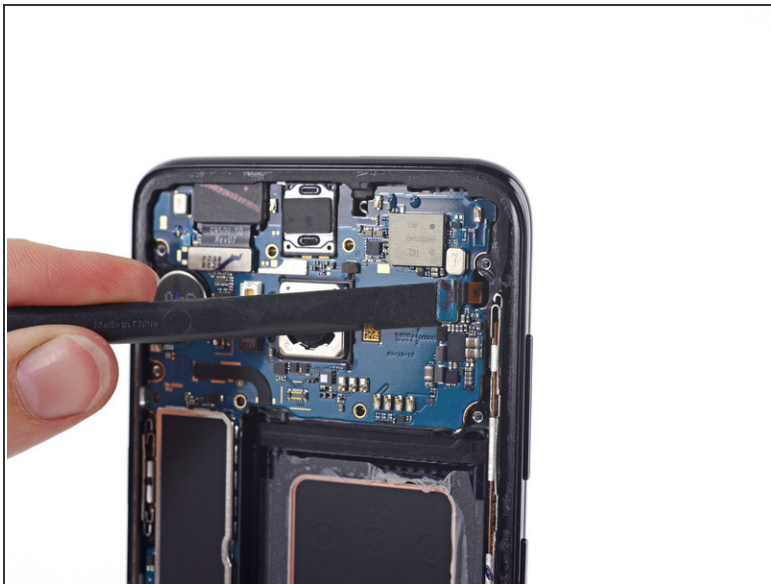


## Step 17 — Battery Connector



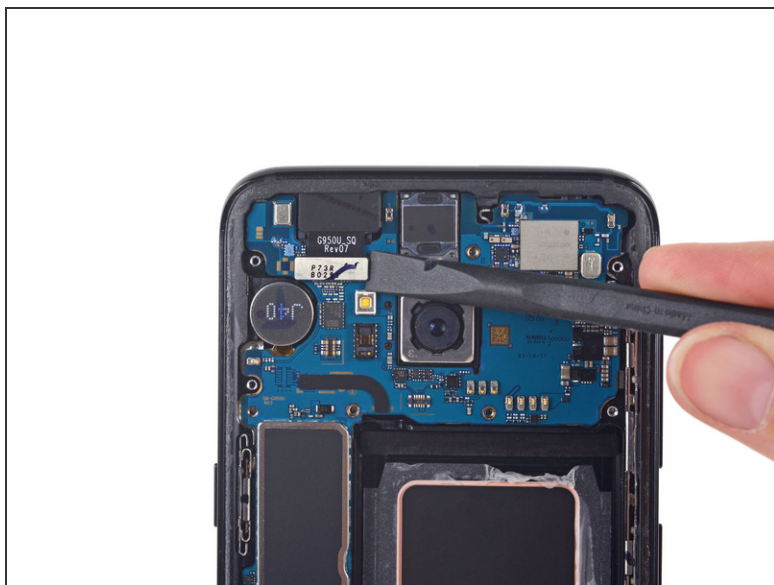
- Use the flat end of a spudger to disconnect the battery connector.
- ❗ Although the battery is not shown in the next steps, there is no need to remove it for this guide. Just disconnect the battery and you're good to go.

## Step 18 — Motherboard



- Use the flat end of a spudger to disconnect the sensor array connector.

## Step 19



- Use the flat end of a spudger to disconnect the front-facing camera connector.

## Step 20



- Use the flat end of a spudger to disconnect the display and digitizer connector.

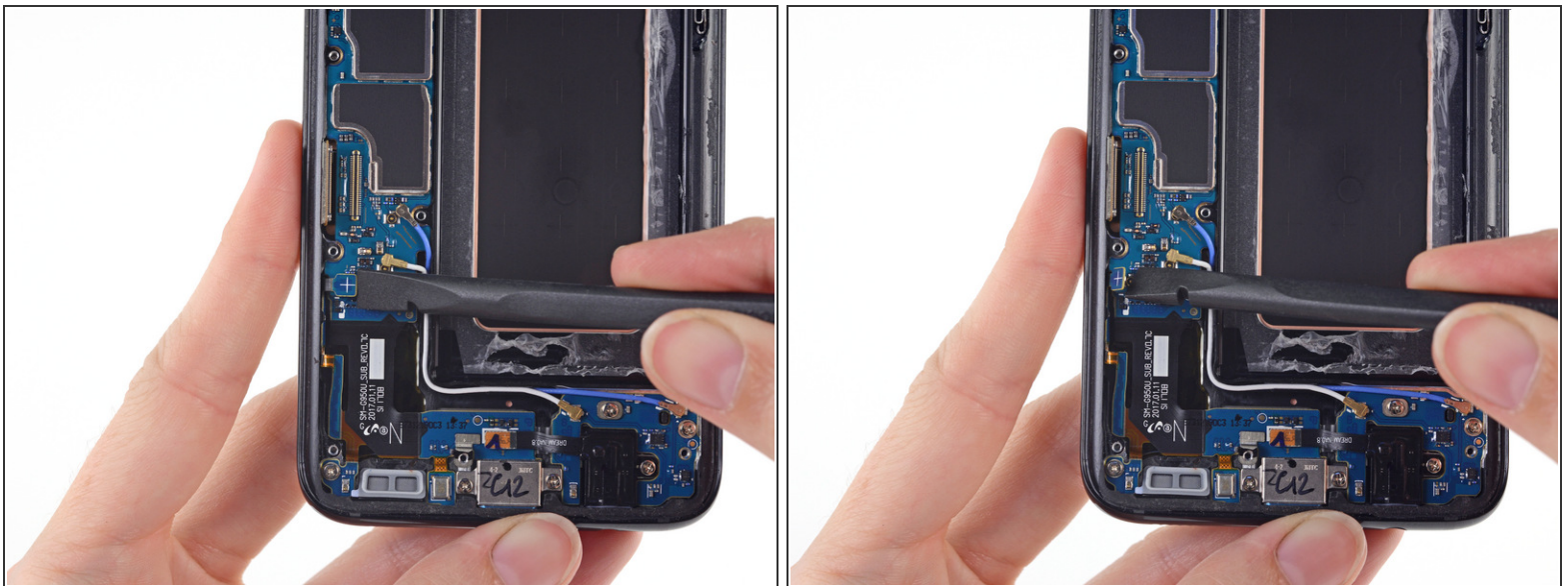


## Step 21



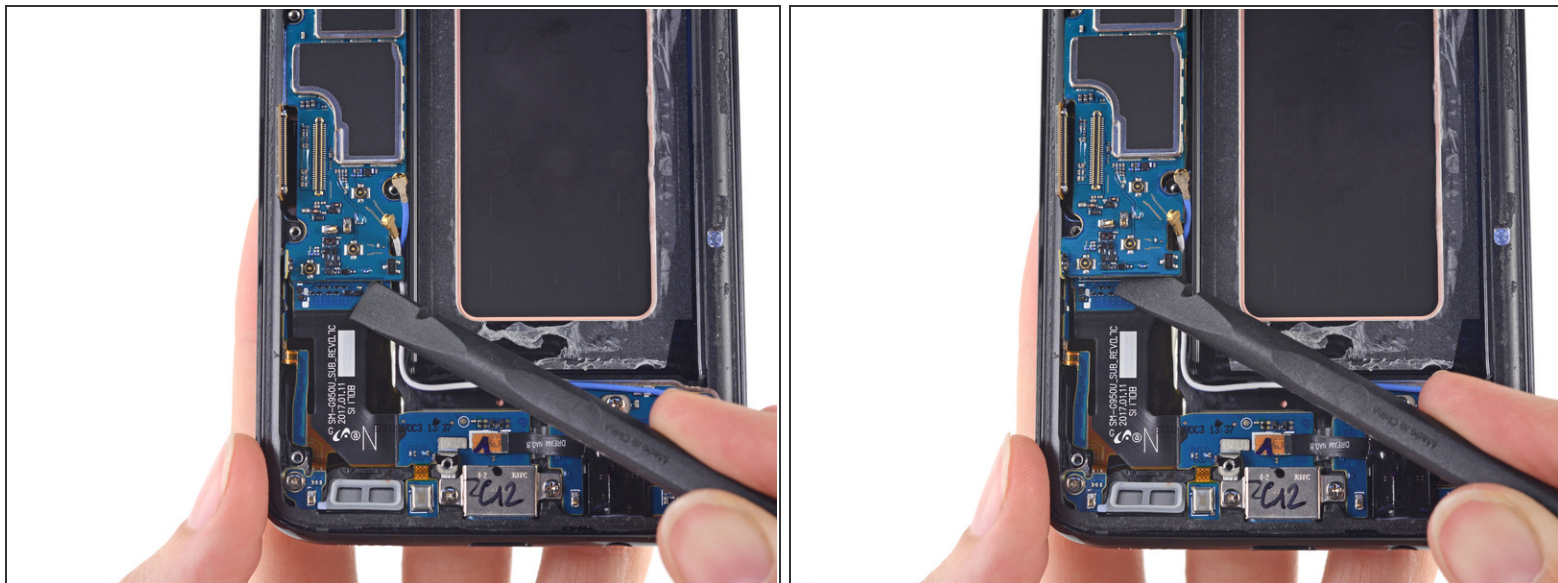
- Use the point of a spudger to disconnect two antenna cables that connect the motherboard to the daughterboard.

## Step 22



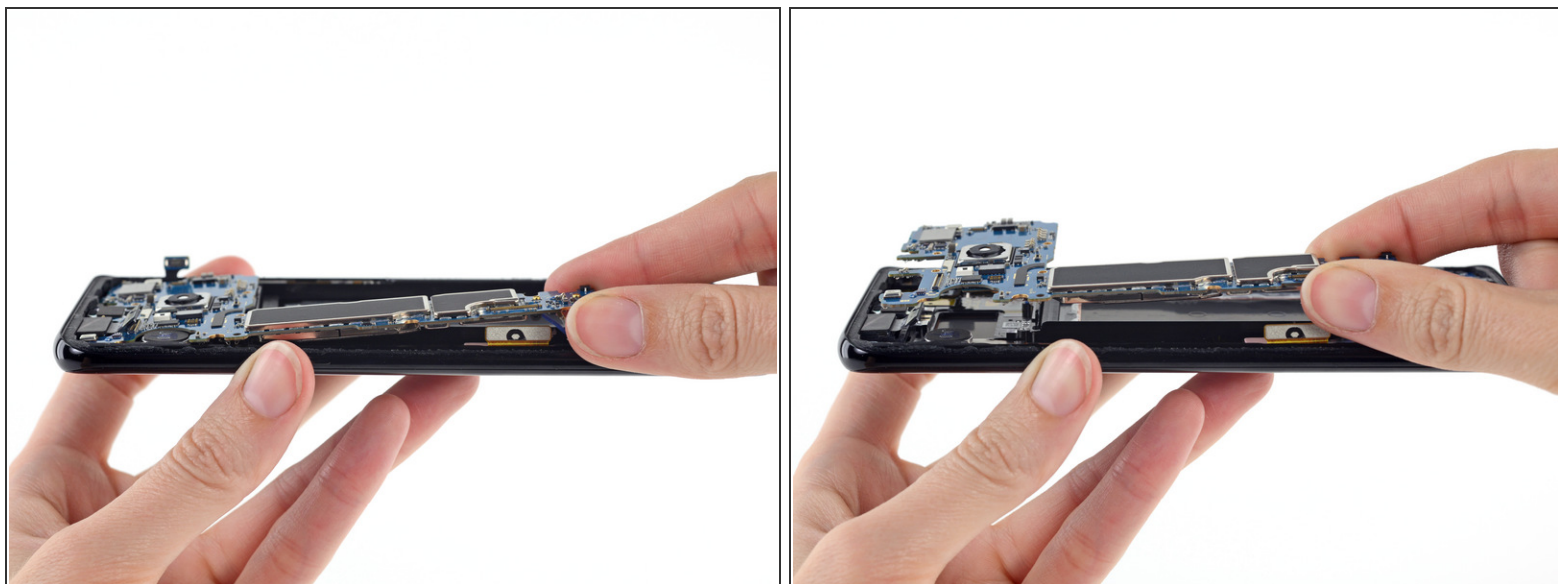
- Use the flat end of a spudger to disconnect an antenna ribbon cable that connects the motherboard to the daughterboard.

## Step 23



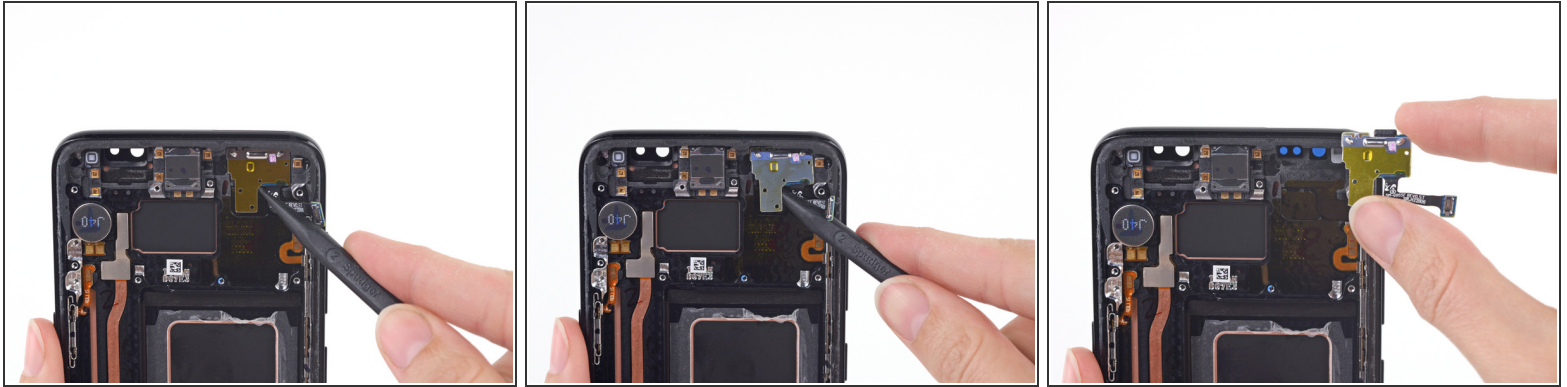
- Use the flat end of a spudger to lift the motherboard and disconnect it from the daughterboard.

## Step 24



- Lift the motherboard out of the phone.
  - ⓘ Careful not to snag the battery connector if you chose not to remove the battery.

## Step 25 — Sensor Array



- Insert the pointed tip of a spudger into the corner of the sensor array, between the case and the array. Pry up the sensor array.
- Remove the sensor array.

After reapplying adhesive, follow these instructions in reverse order to reassemble your device.

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